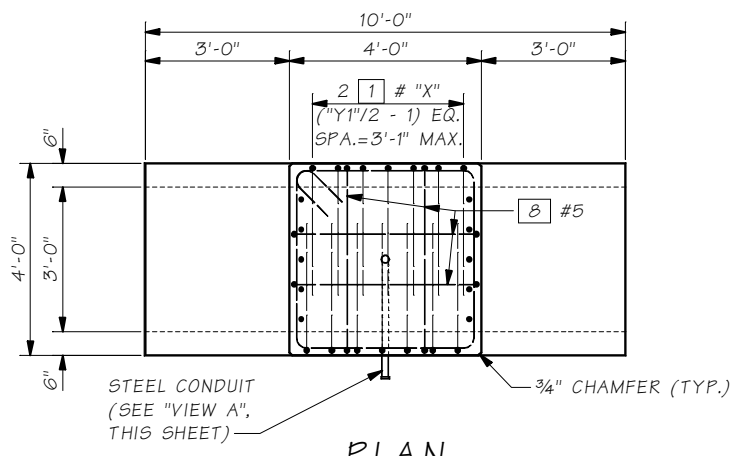
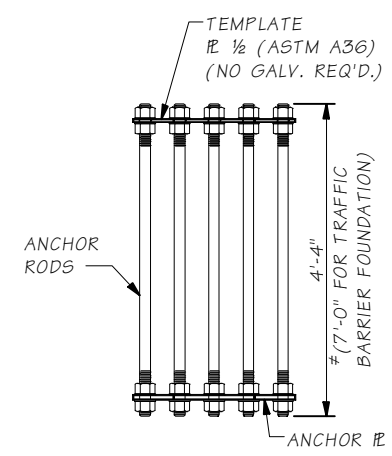


10.1-A4-3
SR JOB NO.
SHEET



PLAN

ANCHOR BOLTS NOT SHOWN.



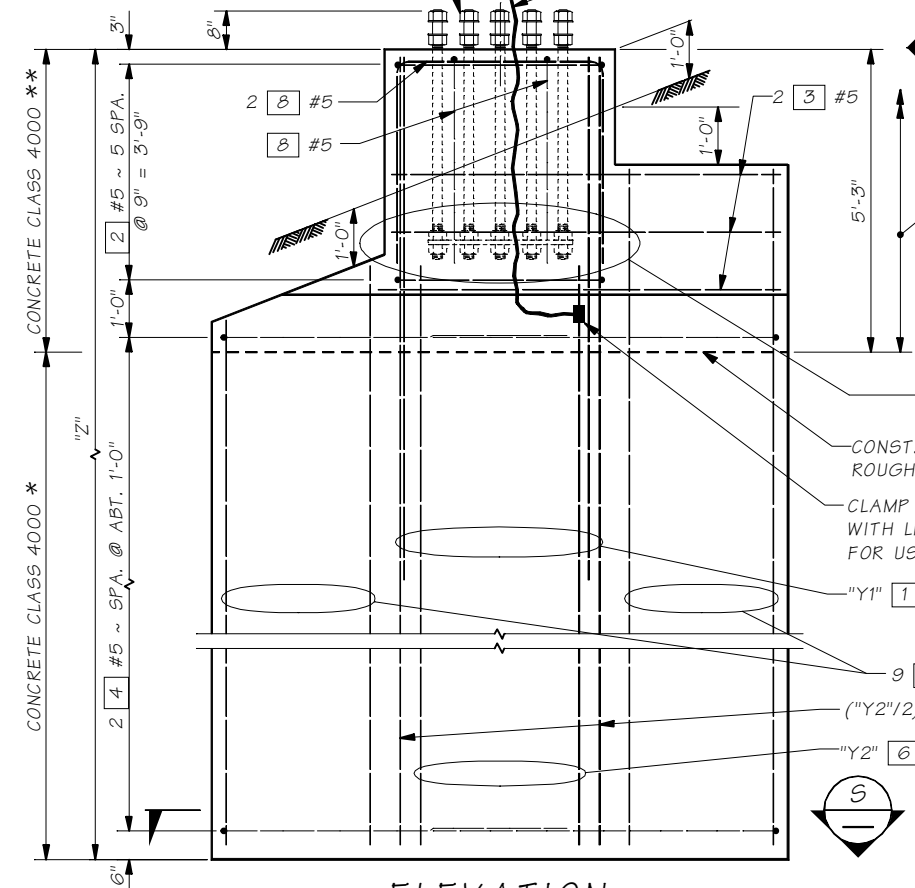
ANCHOR ROD ARRAY

SHIP THE ANCHOR ROD ARRAY ASSEMBLY AS A COMPLETE UNIT.

ANCHOR ROD ~ "D1"Ø x 4'-4" LONG# THREADED ROD WITH 2 WASHERS AND 4 HEAVY HEX NUTS (TYP.). THREAD EACH END 8". GALVANIZE EXPOSED ANCHOR ROD END FOR 1'-0" MIN.

NOTE: USE A TEMPLATE TO LOCATE AND SECURE RODS IN PLACE DURING FOUNDATION INSTALLATION. FOR DETAILS, SEE ANCHOR ROD ARRAY ON THIS SHEET.

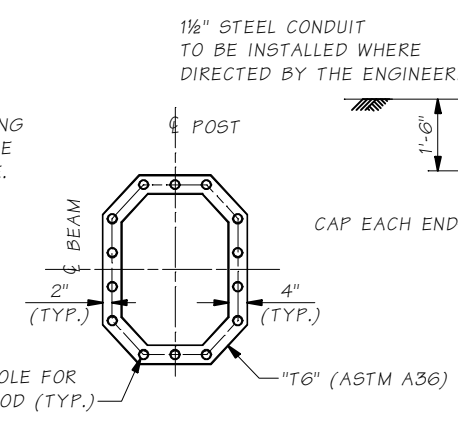
GROUNDING CONDUCTOR NON-INSULATED #4 AWG STRANDED COPPER. PROVIDE 3'-0" MIN. SLACK. ROUTE CONDUCTOR TO GROUND WIRE TERMINAL SHOWN IN DETAIL C 10.1-A1-2, 10.1-A2-2, OR 10.1-A3-2.



ELEVATION

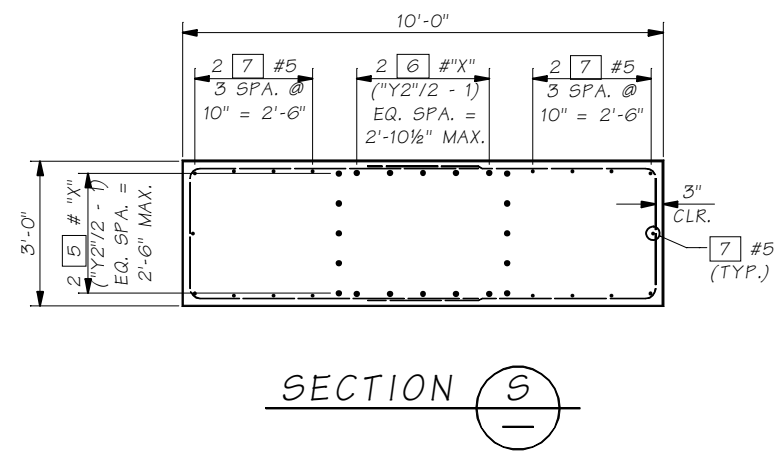
* USE CONCRETE CLASS 4000P AND TREMIE IF WATER IS PRESENT IN THE EXCAVATION. PLACE CONCRETE DIRECTLY AGAINST SOIL.
** BACKFILL/COMPACTION REQUIREMENTS. SEE STD. SPEC. 2-09.3(1)E COMPACTION ITEM 1.

THE FOUNDATION DEPTH "Z" IS BASED ON AN ALLOWABLE LATERAL BEARING PRESSURE OF -----.

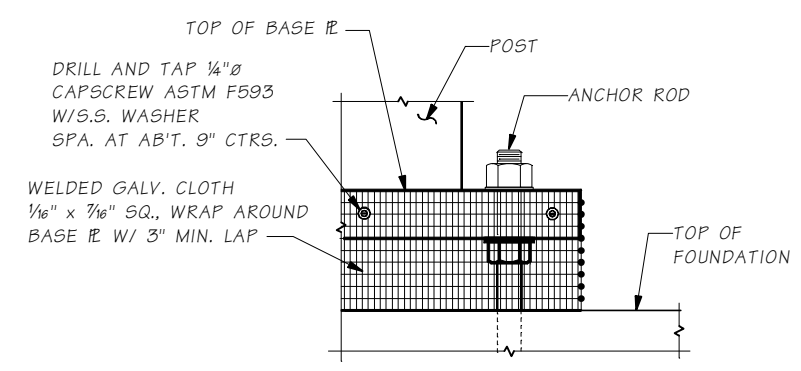


ANCHOR ROD DETAIL

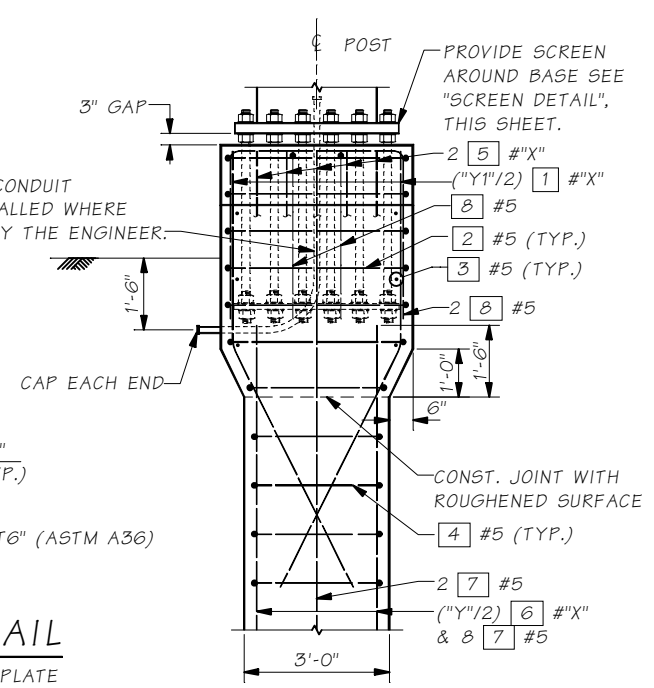
SEE SIGN STRUCTURE BASE PLATE FOR ANCHOR ROD PATTERN.



SECTION S



SCREEN DETAIL



VIEW A

TYPE 2 FOUNDATION TABLE**

STRUCTURE TYPE	SPAN LENGTH ("S")	DEPTH ("Z")	REINFORCEMENT		
			SIZE ("X")	SPACING ("Y1")	SPACING ("Y2")
CANTILEVER SIGN	LESS THAN 20'-0"	7'-3"	9	8	4
	20'-0" TO 30'-0"	9'-6"	9	12	8
SIGN BRIDGE	LESS THAN 60'-0"	9'-0"	9	12	8
	60'-0" TO 90'-0"	11'-0"	9	16	12
	90'-0" TO 120'-0"	12'-9"	11	14	10
	120'-0" TO 150'-0"	13'-6"	11	16	14

* SHAFT DEPTH "Z" IS BASED ON ALLOWABLE LATERAL BEARING PRESSURE OF 2500 PSF OR MORE.

TYPE 3 FOUNDATION TABLE**

STRUCTURE TYPE	SPAN LENGTH ("S")	DEPTH ("Z")	REINFORCEMENT		
			SIZE ("X")	SPACING ("Y1")	SPACING ("Y2")
CANTILEVER SIGN	LESS THAN 20'-0"	11'-0"	9	8	4
	20'-0" TO 30'-0"	13'-9"	9	12	8
SIGN BRIDGE	LESS THAN 60'-0"	12'-9"	9	12	8
	60'-0" TO 90'-0"	15'-6"	9	16	12
	90'-0" TO 120'-0"	17'-9"	11	14	10
	120'-0" TO 150'-0"	19'-6"	11	16	14

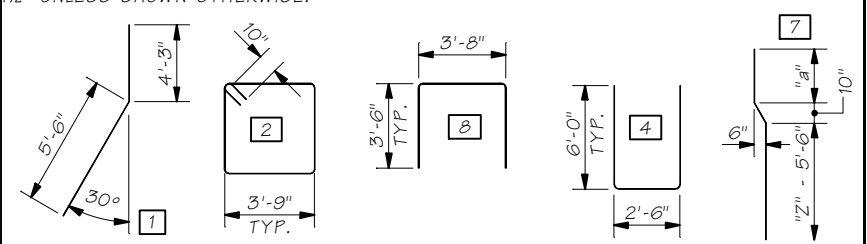
** SHAFT DEPTH "Z" IS BASED ON ALLOWABLE LATERAL BEARING PRESSURE BETWEEN 1500 PSF AND 2499 PSF.

BENDING DIAGRAM

MARK	LOCATION	SIZE	NO. REQ'D.	LENGTH	
1	CAP VERTICAL	"X"	"Y1"	9'-8"	
2	CAP HOOPS	5	6	16'-0"	
3	CAP HORIZONTAL	5	6	"A"	
4	FOUNDATION HOOPS	5	16	15'-5"	STR.
5	FOUNDATION VERTICAL	"X"	"Y2"	"Z" - 6"	
6	FOUNDATION VERTICAL	"X"	"Y2"	"Z" = 4'-0"	
7	FOUNDATION VERTICAL	5	18	"A"	STR.
8	CAP TOP	5	4	10'-4"	STR.

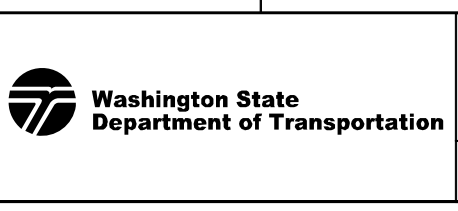
NOTE: CONCRETE COVER SHALL BE 1 1/2" UNLESS SHOWN OTHERWISE.

"A" ~ DETERMINE FROM PLANS



Bridge Design Engr.	M:\STANDARDS\Sign Bridges\MT_SIGN_BRIDGE_FND_TYPE_2AND3.MAN	REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor		10	WASH.			
Designed By						
Checked By						
Detailed By						
Bridge Projects Engr.						
Prelim. Plan By						
Architect/Specialist	DATE	REVISION	BY	APPD		

BRIDGE AND STRUCTURES OFFICE



STANDARD MONOTUBE SIGN STRUCTURES
MONOTUBE SIGN STRUCTURES FOUNDATION TYPES 2 AND 3